

Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in this application.

Listing of Claims

1. (Currently Amended) ~~A shut-off device, especially an~~ An explosion protection valve (1) having a housing (2) and having a rotationally symmetrical closing body (3), guided within the housing, which, under the influence of a dynamic pressure can be pressed out of an open setting, in at least one motional direction (s) against a valve seat (4) into a sealing close setting and can be locked in a closed position by means of a catch device which is a collecting cone (15), characterized in that wherein

on the outer side of the closing body (3) ~~and/or on the inner side of the housing (2), especially~~ in the region of the flow ~~area~~ cross-section (24) formed between the closing body in the open setting and the housing, there are disposed interfering means (25, 25a, 26) for generating a turbulent flow for rapidly increasing the dynamic pressure inducing the closing movement from said open position into the closed position in which the closing body is locked by the catch device.

2. (Currently Amended) ~~The shut-off device~~ explosion protection valve as claimed in claim 1, characterized in that the interfering means (25, 25a, 26) ~~are baffles jutting into the flow area~~ disposed in the region of the flow cross-section (24) formed between the closing body in the open setting and the housing (2).

3. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim [[2]] 15, characterized in that the baffles having one or more interfering rings (25a, 25b) disposed on the closing body [[3]] (3) ~~or on the housing 2~~.

4. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 1, characterized in that the interfering means have at least one interfering edge (26), which extends at least partially along the flow ~~area~~ cross-section (24) and at which at least two wall portions meet at an angle less than 180°.

5. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 4, characterized in that the interfering edge (26) is disposed on the closing body and especially on its outer diameter (D1).

6. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 5, characterized in that the closing body (3), at least on the side facing the valve seat (4), runs in relation to its cross section from its center axis (7) to the outer diameter (D1) in at least two differently inclined or curved outer wall portions (5, 6 and 5', 6' respectively).

7. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 6, characterized in that the two differently inclined or curved outer wall portions ~~meet~~ running approximately on a diameter (D2) which is equal or almost equal to a diameter in the diametral region (D3) of the valve seat (4).

8. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 6, characterized in that the closing body (3) runs in relation to its cross section from its center axis (7) to the outer diameter (D1), to begin with preferably in a elliptically curved or conical, and then in a frustoconical path.

9. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 4, characterized in that the interfering edge ~~[[26]]~~ (26) is disposed on the housing and, in particular, in the connecting region of two housing halves 2, 2' (2, 2').

10. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 4, characterized in that the two wall portions forming an interfering edge meet at an angle (α) between 60° and 179° , preferably 120° .

11. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 4, characterized in that the two wall portions forming an interfering edge form a circumferential recess in the closing body and/or in the housing (2).

12. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 1, characterized in that the closing body (3) is configured as a hollow body.

13. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 12, characterized in that the closing body is made from sheet metal and in that it is fastened on a guide tube (12).

14. (Currently Amended) The ~~shut-off device~~ explosion protection valve as claimed in claim 12, characterized in that the closing body (3) is formed from two identical shells (16, 16'), which are joined together on the outer diameter (D1).

15. (New) The explosion protection valve as claimed in claim 1, characterized in that the interfering means are baffles jutting into the flow cross-section (24).

16. (New) The explosion protection valve as claimed in claim 1, characterized in that additional interfering means (25, 25a, 26) for generating a turbulent flow are disposed on the inner side of the housing (2).

17. (New) A shut-off device having a housing (2) and having a rotationally symmetrical closing body (3), guided within the housing, which, under the influence of a dynamic pressure can be pressed out of an open setting, in at least one motional direction (s) against a valve seat (4) into a sealing close setting, wherein

on the inner side of the housing (2) in the region of the flow cross-section (24) formed and defining an annular passage between the closing body and the housing, there are disposed interfering means (25, 25a, 26) for generating a turbulent flow.

18. (New) The shut-off device as claimed in claim 17, characterized in that interfering means (25b, 26) are disposed in the region of the flow cross-section (24) formed between the closing body in the open setting and the housing (2).

19. (New) The shut-off device as claimed in claim 17, characterized in that the interfering means are baffles jutting into the flow cross-section (24).

20. (New) The shut-off device as claimed in claim 19, characterized in that the baffles having one or more interfering rings (25a, 25b) disposed on the housing (2).

21. (New) The shut-off device as claimed in claim 17, characterized in that the closing body (3) is configured as a hollow body.

22. (New) The shut-off device as claimed in claim 21, characterized in that the closing body is made from sheet metal and in that it is fastened on a guide tube (12).

23. (New) A shut-off device having a housing (2) and having a rotationally symmetrical closing body (3), guided within the housing, which, under the influence of a dynamic pressure can be pressed out of an open setting, in two motional directions (s) against a valve seat (4) into a sealing close setting, wherein

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on the inner side of the housing (2) between the valve seats (4), there are disposed interfering means (25b, 26) for generating a turbulent flow.